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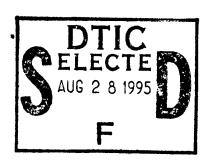
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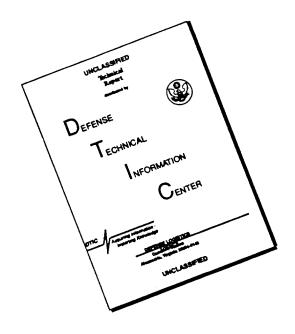
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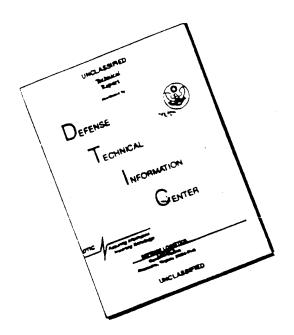


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INTRODUCTION

The Research Proposal Quarterly Status Report is published quarterly (March, June, September, and December) by the Air Force Office of Scientific Research (AFOSR). It lists all the research proposals received by AFOSR during the past six months along with the action taken (Initiated, Declined or Withdrawn on each report, The report is divided into two parts. The Institution Index lists proposals alphabetically by institution. This is followed by a more detailed listing by Directorate, and by Program Manager within the Directorate.

PURPOSE

AFOSR and the action taken on these proposals. Readers must keep in mind that declined proposals should not necessarily be considered as scientifically unacceptable; many declinations result from a lack of funds or This report is designed to inform other Government sponsoring agencies of the proposals received by the as a result of special programatic emphasis.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. To sponsor and sustain basic research and ensure access to research results in support of the Air Force goals of control and maximum utilization of air and space. organized under the Director, Science and Technology, Air Force Materiel Command.

originating from scientists investigating problems involving the search for new knowledge and the expansion AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from proposals received in response to the Broad Agency Announcement of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance of science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

Title - The title of the research proposal

Institution - The organization, (e.g., college/university, company) at which the research will be conducted.

Investigator - The Principal Investigators proposing the research.

Type - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

Months - The duration of the research proposal.

Received - The month and year in which the AFOSR received the proposal.

Amount - The funds requested of the AFOSR for support of the research proposal.

- A = ACCEPIED indicates that the review has been completed and the proposal recommended for funding.

D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = indicates the proposal is being reviewed.

W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at proposer's request. Program Manager - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal

Proposal # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

Initiate - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

Start Date - The recommended date for commencement of the research.

Total Amount - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation. PART 1

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CRITICAL PLASMA PROCESSES IN LOW INTENDED FOR SMALL SATELLITE PROF Frinceton University	LOW POWER HALL MICROTHRUSTERS PROPULSION Jahn	Robert	N 14/06/95 \$347,229	BIRKAN 95-NA-266	
MODELING PRIMARY ATOMIZATION PROCES	SSES	Stephen	N 14/06/95 \$191,878	BIRKAN 95-na-267	
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	Univ of Maryland, beltimore Cambus	Choa	H. Jonathan	\$749,786	95-NE-231	\$749,786
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Univ of Rashington	Babbitt.	William Randall	\$184,690	95-NE-235	\$184,690
AASERT95 (BMDO) ROUTING OF OPTICAL	CATA VIA SPATIAL-S		20 E	≪ () • • • • • • • • • • • • • • • • • • •	\$118,202
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Univ of Colorado	Sauer	John	\$117,944	95-NE-239	\$117,944
HETERODYNE TECHNIQUES IN TWO DIM	DIMENSIONAL INAGE PROCESSING		N 12	4	\$25,000
Hational Science Foundation	Harvey	Albert	\$25,000	95-NE-241	\$25,000
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CDURIP-95) NANC-KELVIN COOLING OF DENSE ATORS FOR AN ULTRA-STABLE 09/05/95 CRAIG 09/05/95 CRAIG 8132,400 95-NE-251 (2001)		Souling Green University	Yujie	\$60,000	95-NE-250	\$60,000
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QUANTUR AND CLASSICAL CPYPTOGRAPHY FOR SECURITY TOWIC INTERNS WETWORK Sen Dieso \$199,000 95-NE-252	9	FOUNTAIN ATOMIC CLOCK Asssachusetts Institute of Technology	Shaoul	09/05/95 \$132,400 }	-NE-2	01/09/95 \$132,400
TONIC INTELES WETWOOK		AND THE AND CLASSICAL LATER BOTH WITH USE		ų 12	⋖	\$199,000
	:	TOMIC IMAGING METHOPN • Sen Diego	, ,	09/05/95 \$199,000	CRAIG 95-NE-252	01/09/95 \$199,000

G.	REPORT DATE 07/05/35 PROPOSAL STATUS REPORT (1 APR	95 - 30 JUN 95) RESEARCH		PAGE 4	
0	ECTRONIC AND	MATERIAL SCIENCES			
0	TITLE (CONT.) INVESTIGATION		TYPEZMONTHS TECTIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
0	H. CHURIN-SP. FRECUENCY-MODULATION SPECTFOSCORY AND PHASE-SENSITIVE DETECTION OF PROTON ECHOIS FOR MOLE-BURNING OPTICAL STORASE DIAY University of New York	a es	N 12 09/05/95 \$215,096	A CRAIG 95-NE-253	\$215,096 01/09/95 \$215,095
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(7)	CDURIP-95) RESEARCH INSTRUMENTATION FOR INVESTIGATIONS IN ATOMIC. MOLECULAR AND CPTICAL PHYSICS Floride international University	Kenneth	N 12 09/05/95 \$87,025	A Craig 95-NE-254	\$87,025 01/09/95 \$87,025
90	COURIP-95) INSTRUMENTATION FOR THE ACCURATE MEASUREMENT AND CONTROL OF COTICAL PHASE		N 12 09/05/95	CRAIG	
•	<u>.</u>	John %.	\$995,300	95-NE-255	
\bigcirc C	COURIF-95) INSTRUMENTATION FOR THE DEVELOPMENT OF TIME-DOMAIN OPTICAL STORAGE PROCESSING AND ROUTING TECHNOLOGIES. Univ of Oregon	. Themes	N 12 09/05/95 \$166,140	A Craig 95-NE-256	\$166,140 01/09/95 \$166,140
	COUPLP-95) SCLITCN-LOCKINS FOR STABLE PAPAMETRIC SOURCES		N 12	≪ C.	\$90,000
0	Univ of Central Florida	George	000 * 06 \$	95-NE-257	000 606\$
0 3	(DURIP-95) FEMTOSECOND LASER SYSTEM FOR RESEARCH ON HIGH-SPEED OPTICAL TRANSMULTIPLEXING AND CODING Purdue Research Foundation	80 L U C 4	N 09/05/95 \$121,333	A Craig 95-NE-258	\$121,333 01/09/95 \$121,333
0	(DURIP-55) A UV MAGNETO-OPTICAL KERR (MOKE) MICROSCOPE		N 12	₹ ₩	\$55,876
)	Uhio State University	Phillip	4554076	95-NE-259	\$55,876
$\mathcal{F}_{\mathcal{F}} = \mathcal{E}$	COURTP-95) DIODE-PUMPED OPTICAL PARAMETRIC OSCILLATOR AND OPTICAL FREQUENCY COME GENERATION AT 1.5UM Massachusetts Institute of Technology Wong	rd au cn X	N 09/05/95 \$\$3,450	A CRAIG 95-NE-260	\$53,450 01/09/95 \$93,450
	COURTP-95) INSTRUMENTATION FOR PHASE MODULATION, STABILIZATION, PUB CONTROL IN TERANIT PER SECONS OPTICAL WETWORKS Princeton University	:: erren	N 09/05/95 \$220,000	A CRAIG 95-NE-261	\$220,000 01/09/95 \$220,000

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e.	REPORT DATE 07/05/95 PROPOSAL ST AIR FORCE O	ATUS REPORT (1 APR FFICE OF SCIENTIFIC	95 - 30 JUN 95) RESEARCH		PAGE 5	
0	CIRECTORAT	OF ELECTRONIC AND M	MATERIAL SCIENCES			
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	CERI-BROO) TERAPIT PER SECOND NETWORKS AND DEV	DEVICES FOR DATA FUSION		N 36	⋖	\$500,000
(3)	Princeton University	Pruchal.	Paul	69/05/95 \$1,439,536	CRAI6 95-NE-263	01/08/95 \$1,499,536
3	NWGOWERN BATTORS	<i>‡</i>		Z	d	4552,000
				10/05/95	CRAIG	01/08/95
•	Univ of California, San Diego	Course	*	\$2,646,807	95-NE-264	\$2,698,807
(SPECTRAL METHOES FOR HIGH-SPEED OPTICAL TRANSMONTING	TRANSPULTIFLEXING AND		N 36	47 U	\$500,000
:	purdue University	Weiner	Andrew	\$1,500,000	95-NE-265	\$1,500,000
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,	PRITAXIAL GROWIN OF MITASTABLE GEL-XCX ALLOYS: THEORETICAL SILSTES	EXPERIMENTAL AND		N 36 '	T MN H MN	
O	Michigan Technological University	Krishnamurthy	Kohan	\$321,180	95-NE-266	
0	MULTI-WAVELENGT	N-MULTIPLEXING BASED		09 N	Ä	\$500,000
0	ONPASIVE LINEAR UNITARY FILTERS Univ of California, Los Angeles	Yablonovitch	Eli	10/05/95 \$2,500,000	CRAIG 95-NE-267	01/08/95 \$2,500,000
9	SILICON-BASES QUANTUM MOS TECHNOLOGY DEVELOPMENT	TX		36	est.	0\$
)	Texas Instruments Inc. Central Res Lab	Seabaugh	Alan	12/05/95 \$575,360	WITT 95-NE-268	15/09/95 \$3,961,808
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	DEVALOPMENT AND APPLICATION OF HETEROJUNCTIONS FOR NITTEON	FOR MANGELECTRONICS		N 36 12/05/95	A	\$100,000
er.	California Institute of Technology	Mc5111	1 .	\$1,584,454	S5-NE-269	\$1,584,454
		CHACCORT DEFOCITABLE		7	*	4 4 7 7 7
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	SMISO SIMOCIDETE Sef	r1 11 L n	N 12/05/95 \$709,215	A WITT 95-NE-271	\$216,250 01/09/95 \$709,215
HIIN SWIING	SPATIAL SOLITON CROSSBAR Stegemen 64	9 U.S E.D 9)	N 15/05/95 \$450,006	CRAIG 95-NE-272	
LASERS		Robert	N 36 16/05/95 \$480,000	POMRENKE 95-NE-273	
EPITAXIBL	STRUCTURE AND MORPHOLOGY Ballance	John	N 12 17/05/95 \$4,500	POMRENKE 95-NE-274	
T WORK BCG	LASER ABRAY APPLICATIONS Dagenais	vario	N 24.05/95 23/05/95 \$2,380,517	CRAIG 95-NE-275	\$1,188,517 15/08/95 \$1,188,517
MODELING	Morozova	n i n e	N 24 24/05/95 \$310,196	- CRAIG 95-NE-276	
FY95 DURIP WEM LASER SOURCES FOR THE RESEARCH INTERNET PROGRAM Colorado State University	DEFENSE UNIVERSITY (TESTBED) Temkin	Henry	N 24 24/05/95 \$1,811,486	A CRAIG 95-NE-277	\$1,811,486 15/08/95 \$1,811,486
LASSA-IONIZATION FOR Technology, inc	REAL-TIME ANALYSIS-CONTROL Chow	Peter	N 36 24/05/95 \$755,125	A WITT 95-NE-278	\$100,191 15/09/95 \$755,125
PARALLEL FADRICATION AND SLECTRONIC STEUCTURED AND MANUMETEROSTRUCTURES JAAN OF COLORBGO	CHARACTERIZATION OF NANO- SETAL SURFACES Douglas	Kenneth	N 36 26/05/95 \$331,894	WEINSTOCK 95-NE-279	

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	fithe fithes Court.) Institution	O O E WEST TO SAW T		TYPE/MONTHS RECEIVED AROUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMI
	or tabon folder meanly intuite of Technology	IOMIZEO GASES AT ATROSPHEPIC Munherdt	4 o 4 r o	N 01/06/95 \$415,318	BARKER 95-NE-200	
2 0	MULTISCALE PHOTONIC DATA FUSION NE Univ of Southern California	ETHORKS AND THEIR INTERFACES Samehuk	Alexander	N 36 01/06/95 \$1,501,551	A CRAIG 95-NE-281	\$500,982 01/08/95 \$1,501,551
9	SBIR PHASE II DIAMOND-BASED THERMAL Astralux	SENSING ELEMENT	Chang	N 24 05/06/95 \$599,968	POMRENKE 95-NE-282	
<u></u>	1996 INTERNATIONAL MEETING ON HOLE SPECTROSCOPIES: SCIENCE AND APPLI Iows State University	HOLE BURNING AND RELATED APPLICATIONS Smell	Gerald	N 12 06/06/95 \$10,250	CRAIG 95-NE-283	
© O	DEVELOPMENT OF LIQUID CRYSTAL POLYMER OPTICAL FIELD SCANNING OPTICAL MICROSCOPY APPLICATION Pordix Incorp	MER OPTICAL FIBERS FOR NEAR APPLICATIONS Arnett	Kenneth	N 06/06/95 \$110,978	SCHLOSSBER 95-NE-284	
୦ ଚ	MEGATIVE IONS IN MATERIALS PROCESS Univ of Tennessee	SING PLASMAS Pinnadusage	j	N 36 08/06/95 \$265,885	KELLEY 95-NE-285	ü
•	HIGH TEMPERATURE SUPERCONDUCTING C	compounds Goldman	Allen	N 36 09/06/95 \$315,000	WEINSTOCK 95-NE-286	
9 ?	CLASSICAL AND LUGNIUM PPODERTIES '	OF MAGNETIC NANOSTRUCTURES	Pri A a a	N 36/90/95 \$300,000	WEINSTOCK 95-NE-287	
	ialCulaT1 niversity	ONS OF TERVERY II—IV—V2 Pendey	R S &	N 36 14/05/95 \$179,880	POPRENKE 95-NE-288	

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PROPOSAL STATUS REPORT (1 APR 95 - 30 JUN 95) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES	INVESTIGATOR	SHETA (collection	NANOSTRUCTURES AND PHENOMENA	Forrest	rauctures	Forrest
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A SMITH 95-NE-292

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PROPOSAL STATUS REPORT (1 APR 95 - 30 JUN 95) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF EDUCATION, ACADEMIC ARD INDUSTRY AFFAIRS

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€.	FRONTTERS OF SUSINEERING			N 12	eq ;	\$80,000
}	Vational Science Foundation	Butcher	William	\$80,000	MAK! 95-NI-031	\$86,00710
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	ELECTRONIC CUMMERCE APPROACH TO ADMINISTER OF ANTE	HOMFUSUM TEMPORAL OWNERS		7 T	₹	\$12,500
0	uranis Dol Washington & Services Director	Christensen	ïE	12/04/95	MAK! 95-NI-032	01/05/95 \$12,500
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0	BUCKBART BEAR TRANSMEND THE TO NOT THE THE TO NOT THE THE THE THE THE THE THE THE THE TH	CE RESPONSE IN CONTINUCUSLY		N 12	«	\$5,359
•	Kainroktas II-basas compositas Wright Lab	Miracle	Daniel	28/04/95 \$41,959	ZARBO 95-NI-033	22/08/95 \$5,359
`	HERSOAD SCHEHOXE ASILWEIDS ASSMISHE			2	et)	\$25.000
				02/05/95	ZARBO	01/06/95
	Aright Lab	Demuts	Edvins	\$25,000	95-NI-034	\$25,000
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	EMVIRONMENT INTRACTIONS WITH SPACECRAFT	F MATERIALS IN LOW-EARTH		N 12	A 0	\$36,170
0		Shively	Jon	\$126.044	95-NI-035	\$36,170
9	DYNAMICS OF A PASSIVE SCALAR IN A TURBULENT	ENT JET		N 12	• •	\$20,179
೦	Univ of New Mexico	Truman	C. Rendall	167.06/35 \$48,834	HAKI 95-NI-036	15/06/95 \$20,179
Ç	NON-INTRUSIVE MEASUREMENTS OF THE PERFORMANCE	RMANCE OF ENDOTHERMIC FUEL,		N 12	₹	\$20,875
3		60414	Richard	\$115,104	HAR1 95-NI-037	\$20,875
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	ENGINEER AND SCIENTIST EXCHANSE PROGRAM			N 24	≪ X	\$20,000
	Rome Air Development Center	Komalchuk	Nicholas	\$163°631	25-NI-038	\$20,000

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PONCONNEL Univ of Misconsin	Steven	04/04/95 \$548,086	KOZUMBO 95-NL-175	
DETOXICATION ENZYMES AS BIOMARKERS OF TOXIN EXPOSURE		7 36	200 X	
Univ of Wisconsin	Frank	\$542,573	95-NL-176	
PUTER SIMULATIONS OF LOW TEMPERATURE HISH ENERGY	ITY MATERI	35	0 0 0 0	
ALS Univ of Pennsylvania Voth	Gregory	\$450,000	95-NL-177	
SYNTHEGIS OF AZACUBANES		N 36	N = 300 UU	
Univ of Illinois - Enicago Moriarty	Robert	\$591,268	95-NL-178	
THEORY GUIDED SYNTHESIS OF CYCLIC OZONE		N 36	Z Z Q U O	
Univ of Connecticut	Lahaer	\$360,000	95-NL-179	
A STUDY OF THE METABOLISM AND TOXICITY OF SOME MEDIUM HO IGHT HYDROCARBONS IN FISCHER 344 RATS Wright State University	MOLECULAR WE M. P≥ul	N 24 04/04/95 \$73,293	KOZUMBO 95-NL-180	
MODULATION OF TESTICULAR PERIPHERAL BENZOBIAZEPINE RECEP OMIUM-INDUCED SEXUAL DYSFUNCTION Meharry Medical College	RECEPTORS IN CA Salil	N 05/04/95 \$492,837	KOZUMBO 95-NL-181	
S SIMULATIONS OF ELECTRONIC Serbe	PROCESSES IN Robert	N 10/04/95 \$413,500	BERMAN 95-NL-182	
SASIC MATEKIALS AND FAERICATION STUDIES FOR ADVANCED POL OPIC-FLECTRONICS Univ of Southern California	POLYMER	P 24 11/04/95 \$300,000	A LEE 95-NL-183	\$149,999 15/06/95 \$299,999

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	TITLE (CONT.) (45T1)	122 (7) 1-1 (7) 1-1 (7) 113 2-2 7-1		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proponal #	INITIATE START DATE
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) (Solution Method Body of Collifornius Los grapolos	Hackenzie	John	1/04/9	LEE 95-NL-184	\$6790 01/06/95 \$120,000
•-	NOVEL SUANTUM BOT MAVEGUIDE DEVICES	SY THE SOL-GEL METHOD		76	•	•
0	Jak of Artzona	Peyghambarian	z	1/04/5 120,00	LEE 95-NL-185	\$60,000 01/06/95 \$120,000
0	POLYMER-BASED INTEGRATED PHOTONIC DE	DEVICES FOR HIGHLY PARALLEL		R 24	« ₹	\$66,66\$
C		Chen	Ray	12/04/95 \$199,998	LEE 95-NL-186	01/06/95 \$199,998
()	DEVELOPMENT AND UTILIZATION OF DEVICE MAITERIALS	E GUALITE NONLINEAR OPTICAL		R 24	ď	\$149,962
6.	Univ of Southern California	Jelton	Larry	12/04/95 \$300,000	LEE 95-NL-187	15/06/95 \$300,000
)	PROCESSING OF NOVEL CHROMOPHORES FOR	FLECTAD-OPTIC APPLICATIONS		R 24	⋖	\$79.999
0	State University of New York	Property	\$0 C	12/04/95	LEE 95-NL-188	01/06/95 \$160,000
© 0	THE SEVENTEENTH INTERNATIONAL SYMPOSIUM CE - COSNITIVE REGULATION OF PERFORMANC Univ of Michigan	SYRPOSIUM ON ATTENTION AND PERFORMAN PERFCRMANCE: INTERACTION OF THEORY Kornblum	Sylvan	N 12 19/04/95 \$35,100	TANGNEY 95-NL-189	
<u> </u>	STIR95 HIGHLY SPECIFIC ENCODABLE COV AVELENGTH RETRO-LASER PAINT Physical Optics Corporation	COVERT MARKER BASED ON MULTIPLE W Spariosu	Kalin	N 24/04/95 \$99,990	HADDAD 95-NL-190	
•;	STIR95 POLARIZATION IMAGER TECHNOLOSA			N 12	4	\$100,000
1.1	Squinox Corporation	iol f f	Lawrence	24/04/95 \$100,000	HADDAD 95-NL-191	01/08/95 \$100,000
	DINVERONI NO EDNESSENDE NOCHOS SKAI	CHEMISTRY		N 01	O	
. 4	Jordon Pesearch Conferences Inc	5.toTR	Carlyle	24/04/95 \$6,200	DELONG 95-NL-192	

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HETEROGENEOUS REACTIONS ON ALUMINUM OXIDE SURFACES MODELING ROCKET EXHAUST PARTICLES Univ of Colorado 13	N 04/05/95 \$334,637	BERMAN 95-NL-194	
SITU CHARACTERIZATION OF ELECTROCHEMICAL CORROSION PHENOMENA: THE EFFECT OF ELECTROLYTE COMPOSITION AND TEMPERATURE ON THE STABILI Greg Utah State University	N 36 04/05/95 \$251,116	DELONG 95-NL-195	
NOVEL PHOTOREFRACTIVE MATERIALS LASED ON SOLUSLE POLYDIACETYLENES POR OPTICAL SIGNAL PROCESSING Molecular Technologies, Inc	N 06 04/05/95 \$59,775	A LEE 95-NL-196	\$59,775 15/07/95 \$59,775
) ADVANCED PROCESSING OF NONLINEAR OFFICAL MATERIALS TO LOWER PIGTAI LING COST, REDUCE OPTICAL LOSS, AND REDUCE DRIVE VOLTAGES IN DEVIC ROBERT RYM Scientific Inc	N 06 05/05/95 t \$60,000	A LEE 95-NL-197	\$60,000 15/07/95 \$60,000
3 8TH INTERNATIONAL SYMPOSIUM ON MICKOBIAL GROWIH ON CI COMPOUNDS California Institute of Technology Lidstrom	N 12 08/05/95 \$29,315	D KOZUMBO 95-NL-198	
HETEROGENEOUS CHEMISTRY IN SOLID ROCKET MOTOR PLUMES July of Southern California Curt	N 36 16/05/95 \$400,918	BERMAN 95-NL-199	
TRECRETICAL MODELS OF CAMAGE MECHANISMS FOR ULTRASHORT LASER PULSE S IN OCULAR MEDIA Priorida internetional University	N 36 16/05/95 rd \$633,315	KOZUMBO 95-NL-200	
3 SLFACTORY IDENTIFICATION AND AGINGS TRUE DEFICITS VERSUS TASK ARTI FACTS ARW York University Medical Center Corwin	N 18 16/05/95 \$76,234	KOZUMBC 95-NL-201	

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3	Pennsylvania State University	Rosenbaum C	David	\$605,124	95-NL-203	
•	MEURAL MODELS OF SPATIAL ORIENTATION	CN IN NOVEL ENVIRONMENTS		R 36		
€.	Boston University	Grossberg	Stephen	\$315,248 \$315,248	95-NL-204	:
G.	SICDEGRADATION OF WITROARGMATIC CON	COMPOUNDS		7.05.48	Ca Rii	
1	Univ of Iowa	Gibson	David	\$833.669	95-NL-205	
⊕ €	DEVILOPMENT OF NOVEL PHOTOCOMBUCTIVE LIGUI A PHOTOBETECTORS	0 0 4 2 4 4 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		N 24 30/05/95	LEE	\$145,000 15/09/95
)	Rogerd University	Pollack	Steven	05840676	33-NE-200	00000000
0 0	APPROACHES TOWARD SYSTEMATIC ENHANCEMENT C ELECTRO-OPTIC AND ALL-OPTIC MATERIALS Univ of Texas, El Paso	ENHANCEMENT AND DEVELOPMENT OF ORGANI C MATERIALS POSSESSING UNPRECEDENTED. Dirk	Carl	N 24 30/05/95 \$295,675	A LEE 95-NL-207	\$148,000 15/09/95 \$296,000
0	NOVEL MACROMOLECULAR MATERIALS FOR IONS Clark Atlanta University	ELECTRONIC AND OPTICAL APPLICAT	۲ì	N 24 30/05/95 \$146,060	A LEE 95-NL-208	\$146,060 15/09/95 \$146,060
$(\mathcal{V}_{\mathcal{V}})$ $(\mathcal{V}_{\mathcal{V}})$	THE ROLE OF MITOCHONDRIA IN THE D S BY MAMMALIAN CELLS Northwestern University	ETECTION OF INFRARSD LIGHT SOURCE Albrecht-Bushler	6.000	N 35 01/06/95 \$358,062	HEDBERG 95-NL-209	
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NOVEL PHOTOREFRACTIVE AND ELECTRO-OPTIC	POLYMERS-RAT		3 A	! !	
SYNTHESIS AND MECHANISM Univ of Chicago	Yu	Luping	07/06/95 \$411,042	LEE 95-NL-213	
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SiALLS Pennsylvania State University	2 pan 3	Nanx	\$3569388 \$3569388	95-NL-214	
) MECHANISMS OF PHOTOREFRACTIVITY IN	Y POLYMERIC MATERIALS		N 36	<u>ս</u> ս	
Univ of California, San Diego	Moerner	William	\$511,336	95-NL-215	
) CORRUSION PROTECTION OF ALUMINUM AND	AND IT ALLOYS USING ELECTROACTIVE		N 36	u	
POLYMERS Ohio State University	Epstein	Arthur	16/06/95 \$386,595	465 95-NL-216	
DEVELOPMENT OF A LOW LOSS ELECTRO-OPTIC	-CPTIC POLYMER AT 800NM		N 06	e Ti €	\$60,000
Deacon Research Co	Sischel	William	260,000	95-NL-217	\$60,000
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	ELECTRONIC PROPERTY CONTROL THROUGH	REDOX BEHAVIOR OF CONJUGATED P		R 35 20/06/95	IL.
(3)	OLYMERS Univ of Florida	Reynolds	John	\$473,687	95-NL-221
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9	AND EVALUATION OF	STRUCTIVE, HIGH FREQUENCY DIELE		N 36	LL LL
€	CTRIC TESTS FOR ADRESTYR BOND BURACILITY VIrginia Polytechnic Inst & State Univ	itii niv Ward	Ton	\$327,198	95-NL-222
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Ç	1,2-DIHALOETHANES AND THE IMMUNE SY	いずらすご		N 35 22/05/95	KOZUMBO
,	Oregon State University	Meyer	Marian	\$326,676	95-NL-223
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0	Kent State University	61ass	J. Bavid	\$483,979	95-NL-224
0	ENLYMATIC BIOREMEDIATION IN THE GAS	, PHASE		N 36	KOZIIN BO
9	Univ of Pittsburgh	Russell	Alan	\$250°640	95-NL-225
K.	CHARACTERIZATION OF	SURIED INTERFACES USING OPTICAL SU		N 36	- HC
)	M-FREGUENCT GENERALION Colorado School of Mines	Furtak	Thomas	\$409,839	
	VISUAL PEPRESENTATION OF OBJECTS AN	AND SETS OF OBJECTS		36	
**.	Sorting Caro	Surbeck	Christina	30/06/95	TANGNEY 95-NL-227
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6 (INTEGRATED CAD SYSTEMS FOR HIGH SPEED VLSI AND PERFORMANCE SYSTEMS Univ of California, Santa Barbara	PACKA	. rd 0 28	N 13/04/95 \$1,179,587	D SCHRECK 95-NM-220	
©	PARALLEL ADAPTIVE METHOOS FOR MODELINS NOWEGUILBRIU PLASMA Univ of Michigen	ILERIUM FLUIDS AND		N 13/04/95 \$50,000	A Jacobs 95-nm-221	\$50,000 01/03/96 \$50,000
○	ROBUST VISUAL DETECTION AND RECOGNITON OF TIME.	MOVING OBJECTS IN REAL Burns	J. erain	N 09 17704/95 \$100,000	MAKSMAN 95-NM-222	\$100,000 01/08/95 \$100,000
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۱, ب۱	A WIDE-ANGLE CAMERA WITH DYNAMICALLY PROGRAMMABL PERIPHERAL IMAGINS CAPABILITIES Silicon Mountain Design Inc	448LE FOVEAL/ Gardner	ſ∋vid	N 18/04/95 \$79,975	D HAKSMAN 95-NM-224	
	NEURAL NET APPROACH TO FUSION OF SENSORS	Иitte	hrvel	N 18/04/95 \$99,665	D WAKSMAN 95-NM-225	
•	HIGH SPEED. LOW COST PROCESSING FOR FUSION C COmpetitive Solicitation	T SENSORS Tremons	Phillip	N 06 18/04/95 \$69,000	D WAKSKAN 95-NM-226	

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3	Competitive Solicitation	Todice	0 × × 0	18/04/95	MAKSHAN 95-NM-228	
9 ()	A HIGHLY LEVEPAGED NULTISENSOR REAL-TIME OBJECT POSE DETERMINATION SYSTEM Cybernet Systems Corp	IDSN #hal	Michael	N 18/04/95 \$100,000	D WAKSMAN 95-NM-229	
Ç	TERPERKTURE SENSORS BASED ON THERMIONIC EMISSION	ZT.		80 80 80 N	2 K S	
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.*	Competitive Solicitation	Ackenhusen	John	\$98,998	95-NM-235	

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	LARSE AREA ARRAYS OF NANDELECTRONIC AND PHOTONIC DEVICES		18/06/95		
(3)	Competitive Solicitation Competitive Solicitation	John	\$96,403	95-NM-237	
•	ARTIFICIAL INTELLIGENCE ENVIRONMENT FOR MULTI SENSOR DATA FUSION		90	0	
Ø.	ABDAR Corp. (Advanced Engineering Design Fabunmi	S O E O C	13/04/95 \$100,000	8AKSHAN 95-NM-238	
0	STRESS/FAILURE ANALYSIS SOFTWARE FOR MULTIMATERIAL INTERFACE		N 12	0 80 0 41	
``.	nyave	×	\$100,000	95-NM-239	
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e ^d ₂ is	AND WAYELST-CAPACITANCE MATRIX Prometheus Inc	Ryoung	15/04/95	JACO35 95-NM-243	\$100,000
	/ FINITE ELEMENT ANALYSIS SOFTMARE FOR MULTI-MATERIAL INTERFACES		N 12 19/04/95	D JACOBS	
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A USER-FRIENDLY COMPUER PROGRAM TO AN MULTI-MATERIAL INTERFACE Design, Analysis and Research Corp	ANALYZE STPESS/FAILURE FOR Anemmat	11.13.13.13.14	N 12 19/04/95 \$99,900	D JACOBS 95-NM-246	
RAD-MAP: A CAD PACKASE FOR MAPPING RAMICPOELECTRONIC PACKASING Full Circle Research Inc	RADIATION DOSE IN ADVANCED Spratt	James	N 08 19/04/95 \$99,824	D JACOBS 95-NM-247	
STRESS/FAILURE AMALYSIS SOFTWARE FOR	MULII-MATERIAL INTERFACES		N 06	D JACOBS	
Computational Mechanics Corporation	२०५	Subrata	\$96 * 66\$	95-NM-248	
STRESS FAILURE AWALYSIS FOR MULTIMATERIAL	ERIAL INTERFACES		N 12	0 0	
Computational Research and Software	Inc Surana	**************************************	\$88,477	95-NN-249	ÿ :
STRESSZFAILURES ANALSIS SOFTWARE FOR	HULTI-MATERIAL INTERFACES		N 12	44 C) 42	\$99,978
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Univ of Maryland	كان الله على الله الله الله الله الله الله الله ال	Isaac	\$197,554	95-NM-251	
3 STUCHASTIC CONTROL AND NONLINEAR EST	ESTIMATION		N 36	2 4 0 0 8 0	
Srown University	Flenins	Wendell	\$581,940	95-NM-252	
CONTROL* STASILIZATION AND DYNAMICS	OF MECHANICAL SYSTEMS		70 III	0.00	
Univ of Michigan	Sloch	Anthony	\$173,548	95-NM-253	

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(3)	Johnson C. Smith University	Naguib	4831,895	95-NM-255	
•	M EXCHANGE IN SPACECRAFT DYNAMICS		N 36	N	
€	Maintenalitute of Technology Hall	Christopher	\$70,980	95-NM-256	
0	WING STRUCTURAL DESIGN BY GENETIC ALGORITHMS AND HOMOTOPY	METHODS	N 48	2 4 20 0 4	
ļ.	Univ of Florida Hatfka	Raphael	\$210,266	95-NM-257	
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0	Virginia Polytechnic Inst & State Univ Gurdal	Zafer	28/04/95 \$255,698	GLASSHAN 95-NM-258	
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Ø	NONLINEAR METHODS APPLIED TO ATMCSFHERIC PREDICTION		N 35		
)	Florida State University Pfeffer	Richard	\$510,000	95-NM-260	
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•	SECOVERY Univ of Massachusetts	8 L D A	\$479,162	LU61MSUAL 95-NM-262	
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Michigan State University	មា សុខភា ស្រ	Betty H.C.	\$386,795 \$386,795	FOGTW201F 85-N#-263	
HYBRID-TREFFTZ FINITE ELEMENT MODEL FOR ACCURATE STRFSS-CONCENTRATION AT MULTIMATERIAL INTERFACES Lobitsa Inc	FOR ACCURATE PREDICTION OF AL INTERFACES Magesh	Suresh	N 06 07 0 06 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D JACOBS 95-NM-264	
ESTABLISHING A RATIONAL FOUNDATION TURBULENCE	FOR ENGINEERING MODELS OF WILCOX	David	N 04/05/95 \$355,764	NACHNAN 95-NM-265	
THEORETICAL AEROCYNAMICS Rensselaer Polytechnic Institute	Cole	Julian	N 04/05/95 \$345,044	NACHMAN 95-NM-266	
EFFICIENCY ENHANCEMENT, SIDEBAND SUPPRESSIÓN, AMD OBSENERATION IN STRONGLY TAPERED FREE-ELECTRON LASERS Univ of Iowa	JPPRESSION, AND OPTICAL PULSE E-ELECTRON LASERS 3hattacharjee	Amitava	N 36 11/05/95 \$253,600	NACHMAN 95-NM-267	
POLYNOMIAL PHASE SIGNALS FOR DIGITAL Univ of California, Davis	_	Benjamin	N 11/05/95 \$299,337	SJOGREN 95-NM-268	
SOFTWARE ARCHITECTURES FOR DATA FUSION, MONITORIN: An experiment in Large-Scale adaptive Parallelism Yale University	SION, MONITORING AND CONTROL: IVE PARALLELISM Gelernter	Eavid	N 36 11/05/95 \$1,089,636	LUGINBUHL 95-NM-269	
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FORMULATION OF SUBGRID VARIABILITY	AND BOUNDARY-LAYER CLOUD COVER		9E		
in LARGE SCALE MODELS Dragon State University	Mahrt Sa	Larry	\$307,670	7 X V ULL 95-NM-273	
COMPUTATIONAL METHODS FOR THE SINUL	NONCONVEX		20 K	est)	\$200,000
	TO SMART MATERIALS Turner, Jr.	James.	16/05/55 \$600,000	NACHRAN 95-NM-274	000*009\$
MULTI-RESOLUTION WAVELET METHODS FOR	OR THE SIMULATIONS OF FLAMES AND		36 36 20/20/81	XJ± aHJV	
ytsi pekrokmanti Univ of California, Santa Barbara	Cai	. 25	\$180,549	95-NM-275	
NONLINEAR CONTROL OF FIGHTER AIRCRA	L u.		N 36	SECON	
McDonnell Douglas Aerospace	Wise	Kevin	\$357,502	95-NM-276	÷
IMPROVED PREDICTION AND CHARACTERIZATION	LATION OF CONTRAILS AND				,
OPTICALLY-THIN CIRRUS National Center for Atmospheric Res	Research Heymsfield	Andrea	\$289,550 \$289,550	55-NM-277	
EFFICIENT SELF-ADJUSTING MECHANISMS FOR	S FOR DATA MANAGEMENT IN		20 C		
TIDE-AREA NEIMORK INFORMATION SERV.	sisha Sisha	Rahul	\$158,503 \$158,503	LOSTABOAL 95-NM-278	
NONLINEAR HOROGENIZATION IN ELECTR	ELECTROSTALICS AND SINITE ELASTICITY		N 24	NA MA	
Univ of Pennsylvenia	Ponte-Castaneda	Pedro	\$149,566	95-NM-279	
CONFERENCE ON	NONLINEAR PROSLEMS IN AVIATION		90		
AND Annosades embry-Riddle Aeronautical University	ty Sivasundaram	v	\$10,000	NACHMAN 95-NM-280	

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SEALACLE DATA PARALLEL ALGORITHMS AND	IMPLEMENTATIONS VISION		9£ X	3 e € 9 e €	886 466\$
Univies Southern California	Neverta	· ·	\$349,955 \$349,955	MAKSHAN 95-NM-281	\$346°55
PARTICLE-IN-CELL PLASMA CODES IN COMPLEX	LEX GEOMETRIES		YO I		
Univ of Alaska	44-44-64-65 44-44-64-65 5-5-5-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-	Daniel	\$355°52°52°5	3CHKELN 95-NM-282	
IMPLICIT	ALGORITHM FOR MHD COMPUTATIONS		N 12		
ON PARALLEL SUPERCOMPUTERS Univ of Washington	Shumlak	Uri	26/05/95 \$140,647	SCHRECK 95-NM-283	
IMPROVED AIRCRAFT INTEGRATED FLIGHT CO DECENTRALIZED DE-COUPLING SLIDING MODE Univ of Alabama	ED FLIGHT CONTROL SYSTEM VIA SLIDING MODE CONTROL Shtessel	Yuri	N 30/05/95 \$334,388	JACOBS 95-NM-284	
MULTILEYEL TECHNIQUES IN LARGE SCALE O	CCMPUTATION		. Σ. ι 	3	
Univ of Colorado	McCormick	Stephen	\$600,174	SCHKECK 95-NM-285	
R LONG	N H C	David	N 36 30/05/95 \$879,200	SCHRECK 95-NM-286	
DESIGN OF HETEROGENEOUS HEAT CONDUCTING WITH IMPERFECT INTERFACE Morcester Polytechnic Institute	NG AND ELASTIC STRUCTURES Lipton	Robert	N 36 30/05/95 \$50,184	NACHMAN. 95-NM-287	
) REVIEW THE SEISMOLOGICAL RESEARCH PRO-	PROGRAMS OF THE U.S. AIR FORCE		N 18	44 17 18 18 18 18 18 18 18 18 18 18 18 18 18	\$150,000
Wational Academy of Sciences	Benson	#0.121.4	\$150,000	95-NM-288	\$150,000
AL METHODS FOR SOLIBIFICATION	PROCESSES IN MATERIALS		90 m	3 0 0 0	
inithus Univ of California, Serkeley	Strain	John	\$121,966	SCHRECK 95-NM-289	

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9	DECENTRALIZED SIGNAL DETECTION HOR DEPENDEMT SENSOR ORSERVATIONS		36 36/36	NEWS	
:	Lehigh University	Note:	423 9 058	95-NM-290	
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	COMBINED ASYMPTOTIC AND NUMERICAL ANALYSIS OF TRANSONIC WIND THANSI DATE TATESPERSE		N 36 06/06/95	NACHWAN	
()	Sockwell International, Science Center Malmuth	z	\$374,338	95-NM-291	
•	S IN MOBILE DISTRIBUTED SOFTWARE SYSTEMS FOR MO		3		
(E)	CONTROL Univ of Illinois - Chicago	Ouri	\$572,409	LUGATNOONL 95-NM-292	
C	INTERNATIONAL STATISTICAL CONGRESS - INTERFACE - SYDNEY		N 12	C C C C C C C C C C C C C C C C C C C	
3	Univ of Georgia	Lynne	\$61,110	95-NM-293	
	FORMAL METHODS FOR SECURITY IN DEPENDABLE DISTRIBUTED SOFTWARE		N 36 09/06/95	LUGINBUHL	
()	Univ of Missouri	Bruce	\$371,612	95-NM-294	
0	DISTRIBUTED MULTIMEDIA DIRECT-SEQUENCE COMA WIRELESS NETWORKS		N 36	2 U G G G G G G G G G G G G G G G G G G	
9	Morthwestern University Honig	Michael	\$189,997	95-NM-295	
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)	Carnegie-Wellon University Moura	100 S O S O S O S O S O S O S O S O S O S	\$297,679	95-NM-296	
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4 00	PROPAGATION Univ of Southern Gal	loed	14/05/95 \$329,332	NACHMAN 95-NM-297	
	. INTERACTIVE OPTIMIZATION IN OBJECT GRIENTED SCHEDULING SYSTEMS		36	2 2 2 0 4	
	Colombia University	Michael	\$240,000 \$240,000	95-NM-298	

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AULIISTRATEGY LEARNING IN COMPUTER	HOISIA		N 36		
Seorge Mason University	et so et a so	Ayszand	\$389,823	95-NM-299	
PROBABILISTIC INPUT/CUTPUT AUTOMATA: OF PROBABILISTIC BEHAVIOR AND DELAY State University of New York	1: TOWARD COMPOSITIONAL ANALYSIS 1Y IN DISTRIBUTED SYSTEMS 5001kg	Scott	N 36 19/06/95 \$416,877	LUGINBUHL 95-NM-300	
NEW ROBUST ESTIMATION/DETECTION TECHNIGUES WIRELESS COMA COMMUNICATIONS OHIO State Univ Research Foundation	WITH APPL Mitr	Urbeshi	N 36 19/06/95 #109,257	SJOGREN 95-NM-301	
HAIHEMAIICAL PROBLEMS IN IMAGING. : RELATED TOPICS Univ of California, Berkeley	STATISTICAL MECHANICS AND Grunbaum	F. Alberto	N 19/06/95 \$958,597	NACHMAN 95-NM-302	,
SCALAR AND VECTOR WAVELET BASED LES PREMIXED COMBUSTION Univ of Houston	S FCP TURBULENT NONPREMIKED AND Zimin	Valery	N 36 19706/55 \$425,326	NACHMAN 95-NM-303	
REASONING UNDER UNCERTAINTY 188 Almaden Research Center	Halpern	Joseph	N 12 20/06/95 \$75,995	MAKSMAN 95-NM-304	
LOGISTICS WORKSHOP Wright Lab	Chuang		N 07 22/06/95 \$20,000	GLASSKAN 95-NM-305	\$20,000 01/07/95 \$20,000
DEVELOPMENT OF GENETIC TYPE CODES DIRECT FUNCTIONAL SIMULATION OF TU Univ of Houston	ODES FOR RANDOM FUNCTIONS TO PERFORM OF TURBULENT FLOWS Jeong	Jinhee	N 36 22/06/95 \$463,393	SCHRECK 95-NM-306	
10 4 × 10 0	OFILMITATION USING LINEAR SOUNDING CHANG	Tsu-Shuan	N 36 26/06/95 \$304,563	GLASSMAN 95-NM-307	

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